

START


0036200

ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN 197999

Proj.
ECN

2. ECN Category (mark one) Supplemental <input type="checkbox"/> Direct Revision <input checked="" type="checkbox"/> Change ECN <input type="checkbox"/> Temporary <input type="checkbox"/> Standby <input type="checkbox"/> Supersedeure <input type="checkbox"/> Cancel/Void <input type="checkbox"/>		3. Originator's Name, Organization, MSIN, and Telephone No. J. M. AYRES/100 AREA RI/H6-02/376-3918		4. Date 02/17/94	
		5. Project Title/No./Work Order No. DATA VALIDATION REPORT FOR THE 100-HR-1 OPERABLE UNIT VADOSE BOREHOLE, WHC-SD-EN-TI- 082, REV 0, P711A		6. Bldg./Sys./Fac. No. 2440 STEVENS CENTER PLACE	
		8. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-EN-TI-082, REV 0		9. Related ECN No(s). NA	
				7. Impact Level Q	
				10. Related PO No. NA	
11a. Modification Work [] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)		11b. Work Package No. NA		11c. Modification Work Complete NA	
		11d. Restored to Original Condition (Temp. or Standby ECN only) NA			
		Cog. Engineer Signature & Date		Cog. Engineer Signature & Date	
*12. Description of Change PAGE CHANGE, Corrects error in laboratory data calculation. Replace page number 5-10 with attached page 5-10 to correct error.					
<div style="text-align: center;"></div>					
13a. Justification (mark one) Criteria Change [] Design Improvement [] Environmental [X] As-Found [X] Facilitate Const. [] Const. Error/Omission [] Design Error/Omission [X]					
13b. Justification Details Recalculation of laboratory data corrected mathematical error in sample analyte results.					
14. Distribution (include name, MSIN, and no. of copies)					
J. M. AYRES H6-02					
R. P. HENCKEL H6-02					
G. S. CORRIGAN H4-16					
CENTRAL FILES (2) L8-04					
ERC H6-07					
EPIC (2) (1) H6-08					
RELEASE STAMP					
OFFICIAL RELEASE 11 BY WHC DATE MAY 04 1994 <i>Station #12</i>					

ENGINEERING CHANGE NOTICE

Page 2 of 2

1. ECN (use no. from pg. 1)

197999

15. Design Verification Required

☐ Yes☒ No

16. Cost Impact

ENGINEERING

Additional

☐ \$

Savings

☐ \$

CONSTRUCTION

Additional

☐ \$

Savings

☐ \$

17. Schedule Impact (days)

Improvement

☐

Delay

☐

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Report	<input type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision

Document Number/Revision

Document Number Revision

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog Engineer J. M. AYRES	<u>2/17/94</u>	PE	_____
Cog. Mgr. R. P. HENCKEL	<u>2/17/94</u>	QA	_____
QA G. S. CORRIGAN	<u>2-17-94</u>	Safety	_____
Safety	_____	Design	_____
Security	_____	Environ.	_____
Environ.	_____	Other	_____
Projects/Programs	_____		_____
Tank Waste Remediation System	_____		_____
Facilities Operations	_____	DEPARTMENT OF ENERGY	
Restoration & Remediation	_____	Signature or Letter No.	
Operations & Support Services	_____		
IRM	_____	ADDITIONAL	_____
Other	_____		_____

5/2/94/OS

INFORMATION RELEASE REQUEST

Complete for all Types of Release

Purpose <input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape		<input type="checkbox"/> Reference <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other	ID Number (include revision, volume, etc.) WHC-SD-EN-TI-082 Rev 0A List attachments. Date Release Required March 20, 1994
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Title: Data Validation Report for the 100-HR-1 Operable Unit Vadose Borehole	Unclassified Category UC-	Impact Level Q
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New or novel (patentable) subject matter? ☒ No ☐ Yes
 If "Yes", has disclosure been submitted by WHC or other company?
☐ No ☐ Yes Disclosure No(s).

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☒ No ☐ Yes (Identify)

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Trademarks?
☒ No ☐ Yes (Identify)

Complete for Speech or Presentation

Title of Conference or Meeting N/A	Group or Society Sponsoring
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Date(s) of Conference or Meeting	City/State	Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No	Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No
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Title of Journal
N/A

CHECKLIST FOR SIGNATORIES

Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval
			Name (printed) Signature Date
Classification/Unclassified	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Controlled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Patent - General Counsel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Legal - General Counsel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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RL Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Publication Services	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Other Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Information conforms to all applicable requirements. The above information is certified to be correct.

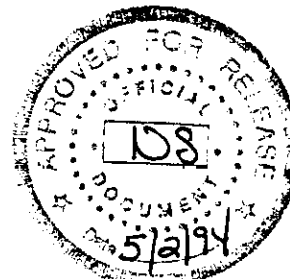
References Available to Intended Audience	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Transmit to DOE-HQ/Office of Scientific and Technical Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Author/Requestor (Printed/Signature)	Date	
J. M. Ayres	4/29/94	

Intended Audience

<input type="checkbox"/> Internal	<input type="checkbox"/> Sponsor	<input checked="" type="checkbox"/> External
Responsible Manager (Printed/Signature)		Date
R. P. Henckel		4-29-94

INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP

Stamp is required before release. Release is contingent upon resolution of mandatory comments.



Date Cancelled

Date Disapproved

SUPPORTING DOCUMENT

1. Total Pages 54

2. Title

Data Validation Report for the 100-HR-1 Operable Unit Vadose Borehole

3. Number

WHC-SD-EN-TI-082
(ECN 197999)

4. Rev No.

0-A

5. Key Words

Volatile organics, Semivolatile organics, Gross alpha, Gross beta, Pesticides/PCB

6. Author

Name: J. M. Ayres

Signature

Organization/Charge Code
81310/P711A

7. Abstract

5/2/94 D. Solis

WHC, 1993, Data Validation Report for the 100-HR-1 Operable Unit Vadose Borehole, WHC-SD-EN-TI-082, Rev. 0, prepared by A. T. Kearney, Inc. for Westinghouse Hanford Company, Richland, Washington.

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10. RELEASE STAMP

OFFICIAL RELEASE
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DATE MAY 04 1994

Station #12

9. Impact Level Q

944320.4102

Project: WESTINGHOUSE-HANFORD																					
Laboratory: TMA																					
Case:		SDG: B05WN8																			
Sample Number		B05WN8		B05WN9		B05WP0		B05WT8													
Location		116-H-9		116-H-9		116-H-9		116-H-7													
Remarks																					
Sample Date		02/26/92		02/27/92		02/27/92		02/27/92													
Inorganic Analytes	CRQL	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	200	5840		9340		5010		9070													
Antimony	60	6.29	UJ	5.90	UJ	6.20	UJ	6.40	UJ												
Arsenic	10	2.10	U	3.20	U	1.60	U	47.00													
Barium	200	52.8		72.50		73.50		94.90													
Beryllium	5	0.37		0.25		0.26		0.37													
Cadmium	5	0.83	U	0.75	U	1.10	U	0.75	U												
Calcium	5000	6210		6320		5150		5220													
Chromium	10	8.96		11.20		8.50		12.30													
Cobalt	50	6.79		13.40		6.90		9.20													
Copper	25	15.3		34.90		13.10		17.00													
Iron	100	14500		24200		13400		19000													
Lead	3	7.90		4.20		2.60	UJ	540.00													
Magnesium	5000	3930		6700		3640		4630													
Manganese	15	239		280.00		214.00		325.00													
Mercury	0.2	0.10	U	0.09	U	0.09	U	0.09	U												
Nickel	40	10.4		28.00		8.00		11.80													
Potassium	5000	1020		600.00		916.00		1720													
Selenium	5	4.00	U	0.76	UJ	0.79	UJ	4.20	R												
Silver	10	1.02	UJ	0.95	UJ	0.99	UJ	1.00	UJ												
Sodium	5000	158		721.00		271.00		182.00													
Thallium	10	0.59	UJ	0.57	UJ	0.59	UJ	0.63	UJ												
Vanadium	50	30.6		46.70		36.80		40.00													
Zinc	20	33.8		42.20		32.80		53.10													
Cyanide	10	5.10	U	5.10	U	4.90	U	5.20	U												